



ELECTRONIC TUBE REFERENCE

251A

Power - Triode (over 1000V 100W) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Filamentary air-cooled power triode for high-frequency oscillator or amplifier service, also suitable as a modulator or low-frequency power amplifier. Western Electric data show substantial Class-C RF output and low interelectrode capacitance.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	5
NOMINAL HEATER	10 V / 16 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
PLATE RESISTANCE	2750 Ω
TRANSCONDUCTANCE	0.0088 S
AMPLIFICATION FACTOR	10.5
MAXIMUM PLATE VOLTAGE	3000 V
MAXIMUM PLATE DISSIPATION	1000 W
MAXIMUM GRID DISSIPATION	50 W
MAXIMUM CATHODE CURRENT	600 mA
Average characteristics at $E_b=2500$ V, $I_b=240$ mA; maximum ratings from later Western Electric sheet in same PDF.	

Filamentary, air-cooled triode intended for high-frequency oscillator or amplifier service and also usable as a modulator or low-frequency power amplifier. It has low interelectrode capacitance and thoriated-tungsten filament construction.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

2026 Western Electric 200s

Published test conditions and operating points. Values on this page are preserved as reported by this source.

2026 WESTERN ELECTRIC 200S

Section 1 · Triode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate To Grid Capacitance	8 pF	—
Grid To Filament Capacitance	10 pF	—
Plate To Filament Capacitance	6 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Frequency	30 MHz	FullRatings
Maximum Plate Voltage	2000 V	Frequency=50MHz
Load Impedance	6500 ohm	ClassA;PlateVoltage=2500V;PlateCurrent=240mA
UndistortedOutput	130 W	ClassA;PlateVoltage=2500V
NominalPowerOutput	1200 W	ClassC;PlateVoltage=3000V

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes, and their source documents.

[Catalog](#)
[Tube types](#)
[Full books](#)
[Blog](#)
[Feedback & corrections](#)

© 2026 Tube Tinker